

QGIS Application - Bug report #2411

FTBFS: qgsgrass.cpp + old grasses on Debian/Lenny

2010-02-03 08:56 PM - hamish -

Status: Closed	
Priority: Low	
Assignee: nobody -	
Category: Build/Install	
Affected QGIS version:	Regression?: No
Operating System: Debian	Easy fix?: No
Pull Request or Patch supplied:	Resolution: fixed
Crashes QGIS or corrupts data:	Copied to github as #: 12471

Description

Hi,

I'm still trying to compile trunk on Debian/Lenny using the supplied debian/control.lenny + debuild. (thanks for fixing #2400)

Now I'm getting this error:

```
[ 68%] Building CXX object src/providers/grass/CMakeFiles/qgisgrass.dir/qgsgrass.cpp.o
In file included from /usr/local/src/qgis/svn/trunk/src/providers/grass/qgsgrass.cpp:37:
/usr/lib/grass/include/grass/version.h:1: warning: deprecated conversion from string constant to 'char*'
/usr/lib/grass/include/grass/version.h:2: warning: deprecated conversion from string constant to 'char*'
/usr/lib/grass/include/grass/version.h:3: warning: deprecated conversion from string constant to 'char*'
/usr/lib/grass/include/grass/version.h:4: warning: deprecated conversion from string constant to 'char*'
/usr/local/src/qgis/svn/trunk/src/providers/grass/qgsgrass.cpp: In static member function 'static void
[[QgsGrass]]::setLocation(QString, QString)':
/usr/local/src/qgis/svn/trunk/src/providers/grass/qgsgrass.cpp:342: error: invalid conversion from 'const char*' to 'char*'
/usr/local/src/qgis/svn/trunk/src/providers/grass/qgsgrass.cpp:342: error:   initializing argument 2 of 'int G+setenv(char*, char*)'
/usr/local/src/qgis/svn/trunk/src/providers/grass/qgsgrass.cpp:344: error: invalid conversion from 'const char*' to 'char*'
/usr/local/src/qgis/svn/trunk/src/providers/grass/qgsgrass.cpp:344: error:   initializing argument 2 of 'int G+setenv(char*, char*)'
maker3: *** [src/providers/grass/CMakeFiles/qgisgrass.dir/qgsgrass.cpp.o] Error 1
maker3: Leaving directory @/usr/local/src/qgis/svn/trunk/debian/build'
maker2: *** [src/providers/grass/CMakeFiles/qgisgrass.dir/all] Error 2
maker2: Leaving directory @/usr/local/src/qgis/svn/trunk/debian/build'
maker1: *** [all] Error 2
maker1: Leaving directory @/usr/local/src/qgis/svn/trunk/debian/build'
make: *** [build-stamp] Error 2
debuild: fatal error at line 1301:
couldn't exec fakeroot debian/rules:
```

I have made these modifications to debian/rules:

```
$ svn diff trunk/debian/rules
```

```
Index: trunk/debian/rules
```

```
=====
```

```
--- trunk/debian/rules (revision 12870)
```

```
+++ trunk/debian/rules (working copy)
```

```
@@ -22,7 +22,7 @@
```

```
CMAKE_OPTS := \\  

```

```

-Wno-dev \
- -D GRASS_PREFIX=/usr/lib/grass64 \
+ -D GRASS_PREFIX=/usr/local/src/grass/svn/grass65 \
-D CMAKE_INSTALL_PREFIX=/usr \
-D CMAKE_SKIP_RPATH=TRUE \
-D BINDINGS_GLOBAL_INSTALL=TRUE \
@@ -147,12 +147,12 @@
dh_installmime -pqqis
dh_link
if which dh_lintian >/dev/null; then dh_lintian; fi
- dh_strip
+ #dh_strip
dh_compress --exclude=pdf
dh_fixperms
dh_makeshlibs
dh_installdeb
- LD_LIBRARY_PATH=$(LD_LIBRARY_PATH):/usr/lib/grass/lib:/usr/lib/grass64/lib dh_shlibdeps
+ LD_LIBRARY_PATH=$(LD_LIBRARY_PATH):/usr/local/src/grass/svn/grass65/dist.x86_64-unknown-linux-gnu/lib
dh_shlibdeps
dh_gencontrol
dh_md5sums
dh_builddeb

```

the standard Debian/stable grass-dev package is installed (6.2.3-2.1) which is why /usr/lib/grass/include/grass/version.h is found. (in addition to about 5-6 other self-contained versions of grass on that machine)

How to get cmake to respect GRASS_PREFIX= for the include path as well as the library path?

thanks,
Hamish

History

#1 - 2010-02-13 11:55 AM - hamish -

ah, trunk/debian/build/CMakeCache.txt:

```

//Path to a file.
GRASS_INCLUDE_DIR:PATH=/usr/lib/grass/include

//Path to GRASS base directory
GRASS_PREFIX:PATH=/usr/local/src/grass/svn/grass65

```

(that base dir is supposed to be the installed (\$GISBASE) dir not the source code base I guess)

with debian/rules changed to:

```

- -D GRASS_PREFIX=/usr/lib/grass64 \
+ -D GRASS_PREFIX=/usr/local/src/grass/svn/grass65/dist.x86_64-unknown-linux-gnu \

```

```
+ -D GRASS_INCLUDE_DIR=/usr/local/src/grass/svn/grass65/dist.x86_64-unknown-linux-gnu/include \
```

and also to build for GRASS 6.5 I needed to make this symlink:

```
cd trunk/src/plugins/grass/  
ln -s modules-6.4 modules-6.5
```

after fixing all that, I now get this error:

```
[ 93%] Building CXX object src/plugins/grass/CMakeFiles/grassplugin.dir/qgsgrassshell.cpp.o  
/usr/local/src/qgis/svn/trunk/src/plugins/grass/qgsgrassshell.cpp: In constructor 'QgsGrassShell::QgsGrassShell(QgsGrassTools*, QTabWidget*,  
const char*)':  
/usr/local/src/qgis/svn/trunk/src/plugins/grass/qgsgrassshell.cpp:69: error: 'class QStringList' has no member named 'length'  
maker3: *** [src/plugins/grass/CMakeFiles/grassplugin.dir/qgsgrassshell.cpp.o] Error 1  
maker3: Leaving directory @/usr/local/src/qgis/svn/trunk/debian/build'  
maker2: *** [src/plugins/grass/CMakeFiles/grassplugin.dir/all] Error 2  
maker2: Leaving directory @/usr/local/src/qgis/svn/trunk/debian/build'  
maker1: *** [all] Error 2  
maker1: Leaving directory @/usr/local/src/qgis/svn/trunk/debian/build'  
make: *** [build-stamp] Error 2  
debuild: fatal error at line 1301:  
couldn't exec fakeroot debian/rules:
```

progress, only 7% to go! :)

Hamish

#2 - 2010-02-13 12:06 PM - hamish -

this seems to fix the 'class QStringList' has no member named 'length' error:

```
Index: src/plugins/grass/qgsgrassshell.cpp  
=====
```

```
--- src/plugins/grass/qgsgrassshell.cpp (revision 12941)  
+++ src/plugins/grass/qgsgrassshell.cpp (working copy)  
@@ -66,7 +66,7 @@  
{  
    QString line = buf;  
    QStringList kv = line.split ( ':' );  
-   if ( kv.length() == 2 && kv.at(0) == "GRASS_GUI" )  
+   if ( kv.size() == 2 && kv.at(0) == "GRASS_GUI" )  
    {  
        oldGui = kv.at(1).trimmed ();  
        break;
```

and now it fails with:

```
dh_testdir
dh_testroot
dh_installchangelogs [[ChangeLog]]
dh_installdocs
dh_installexamples
dh_install --sourcedir=debian/tmp
cp: cannot stat '@debian/tmp/usr/lib/libqgis_core.so.QGIS_ABI': No such file or directory
dh_install: command returned error code 256
make: *** [binary-arch] Error 1
debuild: fatal error at line 1301:
couldn't exec fakeroot debian/rules:
```

```
trunk$ ls -l debian/tmp/usr/lib/libqgis_core.*
lrwxrwxrwx ... 21 ... debian/tmp/usr/lib/libqgis_core.so -> libqgis_core.so.1.5.0
-rw-r--r-- ... 6457442 ... debian/tmp/usr/lib/libqgis_core.so.1.5.0
```

so apparently the "libqgis_core.so.QGIS_ABI" macro isn't being expanded?

Hamish

#3 - 2010-02-13 01:18 PM - hamish -

ok, I ran 'debuild clean' and then 'svn status' to identify and clean out a few files in debian/ that it missed', and reran 'debuild binary'. This time it failed a little differently:

```
dh_install --sourcedir=debian/tmp
dh_install: Compatibility levels before 4 are deprecated.
cp: '@debian/tmp//usr/bin/qgis_help' and '@debian/tmp//usr/bin/qgis_help' are the same file
dh_install: command returned error code 256
make: *** [binary-arch] Error 1
debuild: fatal error at line 1301:
couldn't exec fakeroot debian/rules:
```

?

thanks,
Hamish

ps- these files should be cleaned but are not:

```
trunk/debian$ svn status
? libqgis1.5.0.install
? libqgis{QGIS_ABI}
? python-qgis.install
? libqgis1.5.0.lintian-overrides
? python-qgis.lintian-overrides
? qgis-plugin-grass.install
```

- ? libqgis{QGIS_ABI}.debhelper.log
- ? libqgis1.5.0.symbols
- ? python-qgis.symbols
- ? debhelper.log
- ? qgis-plugin-grass.symbols
- ? libqgis1.5.0
- ? qgis.sh
- ? compat
- ? libqgis1.5.0-dev.install

and it is a bit annoying to have to copy debian/control.lenny back over the top of debian/control every single time you do anything.

#4 - 2010-03-28 10:54 PM - hamish -

same debian/lenny. after svn up & rebuild:

```
$ debuild binary
[...]
dh_testdir
dh_testroot
dh_installchangelogs [[ChangeLog]]
dh_installdocs
dh_installexamples
dh_install --sourcedir=debian/tmp
cp: cannot stat @debian/tmp/usr/lib/libqgis_core.so.QGIS_ABI!: No such file or directory
dh_install: command returned error code 256
make: *** [binary-arch] Error 1
debuild: fatal error at line 1301:
couldn't exec fakeroot debian/rules:
```

{QGIS_ABI} should be replaced by 1.5.0 by rules, but for some reason is not.

```
ls -1 debian/tmp/usr/lib/libqgis_core.*

debian/tmp/usr/lib/libqgis_core.so@
debian/tmp/usr/lib/libqgis_core.so.1.5.0
```

?,

Hamish

#5 - 2010-05-05 07:47 AM - Paolo Cavallini

Is this still valid? Does it make sense to support Lenny, as our minimum requirements are getting higher, and release of Squeeze approaches?

#6 - 2010-05-06 05:37 AM - hamish -

Replying to [comment:5 pcav]:

| *Is this still valid?*

Yes, as of latest commit:d5bbb37b (SVN r13427).

Today I didn't get as far as the linking-

I edited debian/rules to turn off spatialite, and CMakeLists.txt too just in case.

But it still dies:

```
$ cp debian/control.lenny debian/control
$ debuild binary
...
[ 40%] Building CXX object src/app/CMakeFiles/qgis.dir/qgsnewspatialitelayerdialo.cpp.o
In file included from /home/hamish/dev/qgis/svn/trunk/src/app/qgsnewspatialitelayerdialo.cpp:22:
/home/hamish/dev/qgis/svn/trunk/src/app/qgsnewspatialitelayerdialo.h:30:24: error: spatialite.h: No such file or directory
/home/hamish/dev/qgis/svn/trunk/src/app/qgsnewspatialitelayerdialo.cpp: In member function 'bool [[QgsNewSpatialiteLayerDialog]]::apply()':
/home/hamish/dev/qgis/svn/trunk/src/app/qgsnewspatialitelayerdialo.cpp:297: error: 'spatialite_init' was not declared in this scope
maker3: *** [src/app/CMakeFiles/qgis.dir/qgsnewspatialitelayerdialo.cpp.o] Error 1
maker3: Leaving directory @/home/hamish/dev/qgis/svn/trunk/debian/build'
maker2: *** [src/app/CMakeFiles/qgis.dir/all] Error 2
maker2: Leaving directory @/home/hamish/dev/qgis/svn/trunk/debian/build'
maker1: *** [all] Error 2
...
```

missing #ifdef in the .cpp or CMakeLists.txt rule?

(fwiw I'm not a cmake expert)

| *Does it make sense to support Lenny,*

Yes please, it does. For work reasons etc. not everyone has the luxury (or desire) to change OSs on the shared machines they need to work on, to the latest-greatest testing release.. especially when it is just for one app.

I would accept using an older version on an older OS, but so far the most modern version I can build for Lenny is 1.2.0. :-/

thanks,
Hamish

#7 - 2010-05-06 05:45 AM - Jürgen Fischer

Did you add a changelog entry stating that you are building for lenny? otherwise it falls back to sid.

#8 - 2010-05-06 06:00 AM - hamish -

Replying to [comment:7 jef]:

|

2025-04-27

6/11

| *Did you add a changelog entry stating that you are building for lenny? otherwise it falls back to sid.*

I hadn't, but I had edited the rules file to set to FALSE even in that sid+= logic. (everywhere grep could find it being set to TRUE)

Now changed to:

```
--- debian/changelog (revision 13427)
+++ debian/changelog (working copy)
@@ -1,4 +1,4 @@
-qgis (1.5.0) UNRELEASED; urgency=low
+qgis (1.5.0.lenny) stable; urgency=low
```

but it still ignores WITH_SPATIALITE=FALSE & dies in the same place.

thanks,
Hamish

#9 - 2010-05-06 09:07 AM - Jürgen Fischer

Replying to [comment:8 hamish]:

| *but it still ignores WITH_SPATIALITE=FALSE & dies in the same place.*

The default is to build with internal spatialite when not building for sid. Anything wrong with that? Otherwise you also need to tweak the .install files and apply the hardy patches to get the grass plugin compiled with GRASS 6.2.

Still spatialite should be optional: fixed in commit:e7ded48b (SVN r13430).

#10 - 2010-05-07 12:02 AM - Jürgen Fischer

Replying to [comment:4 hamish]:

| *{QGIS_ABI} should be replaced by 1.5.0 by rules, but for some reason is not.*

You're supposed to add a changelog entry with distribution lenny (not stable) and the rules will rebuild control from control.lenny replacing {QGIS_ABI} (and {GRASS_ABI}).

#11 - 2010-05-07 07:42 PM - hamish -

Replying to [comment:9 jef]:

| *Still spatialite should be optional: fixed in commit:e7ded48b (SVN r13430).*

great, I get past that .cpp file now, thanks.

Replying to [comment:10 jef]:

```
| You're supposed to add a changelog entry with distribution lenny  
| (not stable)
```

"supposed"? as in specific to the qgis build scripts, right? for previous backports of other software I've used the unstable/ testing/ stable/ old-stable names without problem.

```
| and the rules will rebuild control from control.lenny replacing{QGIS_ABI} (and {GRASS_ABI}).
```

ok, done that. Now it gets past the main build but I get a weird linking error I've not seen before. Here's the end of it:

```
...  
- _ZThn8_N20QgsMapOverviewCanvasD0Ev@Base 1.5.0  
- _ZThn8_N20QgsMapOverviewCanvasD1Ev@Base 1.5.0  
- _ZThn8_N21QgsDetailedItemWidgetD0Ev@Base 1.5.0  
- _ZThn8_N21QgsDetailedItemWidgetD1Ev@Base 1.5.0  
- _ZThn8_N21QgsEncodingFileDialogD0Ev@Base 1.5.0  
- _ZThn8_N21QgsEncodingFileDialogD1Ev@Base 1.5.0  
- _ZThn8_N21QgsProjectionSelectorD0Ev@Base 1.5.0  
- _ZThn8_N21QgsProjectionSelectorD1Ev@Base 1.5.0  
- _ZThn8_N28QgsGenericProjectionSelectorD0Ev@Base 1.5.0  
- _ZThn8_N28QgsGenericProjectionSelectorD1Ev@Base 1.5.0  
+ _ZThn40_N19QgsCredentialDialog7requestE7QStringRS0_S1_S0_@Base 1.5.0.lenny  
+ _ZThn40_N19QgsCredentialDialogD0Ev@Base 1.5.0.lenny  
+ _ZThn40_N19QgsCredentialDialogD1Ev@Base 1.5.0.lenny  
+##MISSING: 1.5.0.lenny# _ZThn8_N12QgsMapCanvasD0Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N12QgsMapCanvasD1Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N14QgsColorButtonD0Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N14QgsColorButtonD1Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N15QgsComposerViewD0Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N15QgsComposerViewD1Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N15QgsFileDropEditD0Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N15QgsFileDropEditD1Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N16QgsMessageViewerD0Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N16QgsMessageViewerD1Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N16QgsPanningWidgetD0Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N16QgsPanningWidgetD1Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N20QgsMapOverviewCanvasD0Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N20QgsMapOverviewCanvasD1Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N21QgsDetailedItemWidgetD0Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N21QgsDetailedItemWidgetD1Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N21QgsEncodingFileDialogD0Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N21QgsEncodingFileDialogD1Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N21QgsProjectionSelectorD0Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N21QgsProjectionSelectorD1Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N28QgsGenericProjectionSelectorD0Ev@Base 1.5.0  
+##MISSING: 1.5.0.lenny# _ZThn8_N28QgsGenericProjectionSelectorD1Ev@Base 1.5.0  
_ZZN11QMetaTypeId19QgsDetailedItemDataE14qt_metatype_idEvE11metatype_id@Base 1.5.0
```



```
+ _ZZN11QMetaTypeId5QListIP7QWidgetEE14qt_metatype_idEvE11metatype_id@Base 1.5.0.lenny
+ _ZdlPvS_@Base 1.5.0.lenny
+ _Zeq5QCharS_@Base 1.5.0.lenny
+ _ZeqN7QString4NullERKS_@Base 1.5.0.lenny
+ _ZeqPKcRK7QString@Base 1.5.0.lenny
+ _ZmiRK6QPointS1_@Base 1.5.0.lenny
+ _ZmiRK7QPointFS1_@Base 1.5.0.lenny
+ _ZneRK5QSizeS1_@Base 1.5.0.lenny
+ _ZnwmPv@Base 1.5.0.lenny
+ _ZorN11QMessageBox14StandardButtonES0_@Base 1.5.0.lenny
+ _ZorN16QDialogButtonBox14StandardButtonES0_@Base 1.5.0.lenny
+ _ZorN17QAbstractItemView11EditTriggerES0_@Base 1.5.0.lenny
+ _ZorN2Qt13AlignmentFlagES0_@Base 1.5.0.lenny
+ _ZorN2Qt8ItemFlagES0_@Base 1.5.0.lenny
+ _ZorN2Qt9MatchFlagES0_@Base 1.5.0.lenny
+ _ZplPKcRK7QString@Base 1.5.0
+ _ZplRK7QPointFS1_@Base 1.5.0.lenny
+ _ZplRK7QString5QChar@Base 1.5.0.lenny
+ _ZplRK7QStringPKc@Base 1.5.0
+ _ZplRK7QStringS1_@Base 1.5.0.lenny
capture_point_cursor@Base 1.5.0
cross_hair_cursor@Base 1.5.0
identify_cursor@Base 1.5.0
dh_makeshlibs: command returned error code 256
make: *** [binary-arch] Error 1
debuild: fatal error at line 1301:
couldn't exec fakeroot debian/rules:
```

Apparently errors >3000 lines long so the start of it is beyond my terminal buffer. I can rerun tee'ing stderr to a file if it helps.

thanks,
Hamish

#12 - 2010-05-08 08:11 AM - Jürgen Fischer

Replying to [comment:11 hamish]:

Replying to [comment:10 jef]:

*You're supposed to add a changelog entry with distribution lenny
(not stable)*

"supposed"? as in specific to the qgis build scripts, right? for previous backports of other software I've used the unstable/ testing/ stable/ old-stable names without problem.

Right. The distribution name in the changelog determines which template files are used to build the package...

ok, done that. Now it gets past the main build but I get a weird linking error I've not seen before. Here's the end of it:

That's not a link error. `dh_makeshlibs` complains about missing symbols in the shared library. But that's just due to the different Qt version in lenny. I dropped that altogether in commit:8d892722 (SVN r13439).

#13 - 2010-06-30 12:28 PM - Jürgen Fischer

Replying to [comment:12 jef]:

That's not a link error. `dh_makeshlibs` complains about missing symbols in the shared library. But that's just due to the different Qt version in lenny. I dropped that altogether in commit:8d892722 (SVN r13439).

Hamish, did that work for you, too?

#14 - 2010-07-01 11:49 PM - hamish -

Replying to [comment:14 jef]:

Replying to [comment:12 jef]:

That's not a link error. `dh_makeshlibs` complains about missing symbols in the shared library. But that's just due to the different Qt version in lenny. I dropped that altogether in commit:8d892722 (SVN r13439).

Hamish, did that work for you, too?

nope, I still get the error shown in comment:11. I've attached to this ticket the current svn diff from latest trunk needed to start the build on Debian/Lenny + GRASS 6.5svn.

thanks,
Hamish

#15 - 2010-07-01 11:58 PM - hamish -

attached debuild log showing `dh_makeshlibs` error to ticket. see:

```
dpkg-gensymbols: warning: some new symbols appeared in the symbols file: see diff output below
dpkg-gensymbols: warning: some symbols disappeared in the symbols file: see diff output below
dpkg-gensymbols: warning: debian/libqgis1.5.0/DEBIAN/symbols doesn't match completely debian/libqgis1.5.0.symbols
[...]
dh_makeshlibs: command returned error code 256
make: *** [binary-arch] Error 1
debuild: fatal error at line 1301:
couldn't exec fakeroot debian/rules:
```

#16 - 2010-07-02 12:18 AM - Jürgen Fischer

Replying to [comment:16 hamish]:

|

| attached debuild log showing dh_makeshlibs error to ticket. see:

Remove the symbol files - those are leftovers created from templates, that have been removed in commit:8d892722 (SVN r13439).

#17 - 2010-07-02 01:07 AM - hamish -

- Status changed from Open to Closed

- Resolution set to fixed

ok, I had run "debuild clean" but I guess it missed those old files.

"svn status" showed that debian/qgis-plugin-grass.symbols, libqgis1.5.0.symbols, python-qgis.symbols were extra so I removed those and restored the missing debian/qgis-plugin-grass-common.install file.

after that, tried rebuilding the package and it worked. hurray!

so svn trunk now builds + installs .debs on Lenny. test of loading shapefile, geotiff, and [[PostGIS]] db worked. closing bug.

thanks for your help,

Hamish

Files

trunk_lenny_chages_2july2010.diff	6.59 KB	2010-07-01	hamish -
debuild.log.gz	113 KB	2010-07-01	hamish -